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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/939,227	08/24/2001	David Eugene Hirth	284-09555-US (D5407-25)	4072	
	7590 04/22/200 RIS LLP - Houston	,	EXAMINER		
	EST FREEWAY	THOMPSON, KENNETH L			
SUITE 3150 HOUSTON, TX	X 77027		ART UNIT	PAPER NUMBER	
			3672		
			MAIL DATE	DELIVERY MODE	
			04/22/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Applicati	on No.	Applicant(s)				
		09/939,2	27	HIRTH, DAVID EUGENE				
		Examine	•	Art Unit				
		Kenneth 1	hompson	3672				
Period fo	The MAILING DATE of this communication or Reply	n appears on the	e cover sheet with the o	correspondence a	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) filed on 1	14 January 200	q					
•	Responsive to communication(s) filed on <u>14 January 2009</u> . This action is FINAL . 2b) This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
٥)ا	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	closed in accordance with the practice and	dei Ex parte Qu	ayic, 1000 O.D. 11, 4	00 0.0. 210.				
Dispositi	on of Claims							
4)🛛	Claim(s) 1-36 is/are pending in the applica	ation.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)🛛	☐ Claim(s) <u>3,7-19 and 21-36</u> is/are allowed.							
6)🖂	Claim(s) <u>1, 2, 4, 5, 6 and 20</u> is/are rejected.							
· ·	Claim(s) is/are objected to.							
•	Claim(s) are subject to restriction as	nd/or election r	equirement.					
	on Papers							
	-	i						
•	The specification is objected to by the Exar		□ shipstad to by the	Evaminar				
10)	The drawing(s) filed on is/are: a)	-	-					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice (3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	3)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 5, 6 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Angel, U.S. 3,013,612.

Angel discloses a plastic (col. 5, lines 10-15) seat assembly (13,35,21,34,27) having threads (15) and a seat (on 34) adapted to receive a fluid obstructing member (24) thereon. Angel discloses the spring loaded seat assembly movable between a first obstructed position, an open second position (col. 3, lines 6-11) wherein a range of fluid pressures exerted by flow past the seat and member causes the spring (17) to regulate the rate of movement of the seat assembly.

Angel discloses the seat assembly having a first (21) and second (34) component wherein failure of the first component (21) to move to the second position shear pins (37) allowing separation of the components (34,21).

Angel discloses a cavity between the flow obstruction object (24) and a flow restrictor (39).

Angel dislcoses a through passage (23).

Angel dislcoses a bypass (25) closed in the first position.

Allowable Subject Matter

Claims 3, 7-19 and 21-36 are allowed.

Response to Arguments

Applicant's arguments filed 14 January 2009 have been fully considered but they are not persuasive with respect to the original claims.

Applicants argue the prior art of Angel does not disclose a first and second position of the seat assembly, wherein the first position the member is on the seat and the passage is obstructed and in the second position the member is still on the seat but there is flow around the obstructed passage.

In the first position prior to dropping the ball, drilling mud is pumped through passage 23 and orifice 41 until 46 lands on 46a to allow pressure to build on 18 to compress the spring 17, the second position. The downward movement to the second position of 18 opens ports 25 to allow circulation.

Neither the prior art apparatus nor the rejected claims requires the seat assembly to be obstructed for operation of the bypass.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Thompson whose telephone number is 571 272-7037. The examiner can normally be reached on 6:00 am - 2:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

16 April 2009

/Kenneth Thompson/ Primary Examiner, Art Unit 3672